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Department of Energy

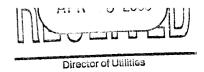
Western Area Power Administration
Desert Southwest Customer Service Region
P.O. Box 6457

2003 APR -3 P 2:58

AZ CORP COMMISSION

Phoenix, AZ 85005-6457

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E-00000D-03-0047

Dear Boulder Canyon, CRSP, Intertie, and Parker-Davis Customers;

Western Area Power Administration (Western), Desert Southwest Region (DSW), held a 10-Year Plan Engineering and Construction Plan (10-Year Plan) meeting on January 30, 2003.

Customer input to DSW during the abovementioned meeting and subsequent site reviews determined that no further meetings are necessary for the FY05 10-Year Planning Process. Enclosed with this letter is a CD containing the following information:

- Final version of the Preliminary FY05 Maintenance Construction Rehabilitation Program (both in electronic and hard copy format), including all changes discussed in the customer meeting.
- Maps and Operating Diagrams The maps and operating diagrams are the most current available at DSW.
- Trip Reports from the Site Visits (site maps included).
 - Site visit conducted to South of Casa Grande, South of Phoenix Project on February 27, 2003, by Chuck McEndree, Project Manager.
 - Site visit conducted to South of Parker on March 5, 2003, by Jorge Alva, Project Manager.
- Facility Development Sheets (FDS) for the projects shown as starting in FY05. (Note: This will be the on-going standard for the disbursement of FDS' in conjunction with the 10-Year Plan.)
- Right-of-Way/Easement Documentation This is an on-going data collection process, and will be updated with the customers at later dates (see enclosed Minutes for further details).

This letter concludes the 10-Year Planning Process for FY05. DSW is always looking to improve and refine our processes. If you have any observations on process improvements, please let us know.

Should you have any questions regarding the documentation, issues, or meetings discussed in this letter, please contact David Radosevich at (602) 352-2681.

Arizona Corporation Commission

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Sincerely,

Hugh Starkey

Assistant Regional Manager

Dugh B Starley

For Maintenance

Prelim_FY05_Ten_Year_Plan_draft_final_postmtg_customers5 PAD - CONST PROJ (LINE 1 - 64) Date Generated 3/28/2003 1 of 18

	T T	T	1	1	T	T	1	r	1	T	T	
	FY12											
	FY11										\$2,000	
	FY10										\$1,500	
										089\$	\$200	\$769
	8 FY09							\$1,965	\$1,965	\$1,000		\$150
	FY08					\$100		\$3,510	\$3,510	0005\$		\$100
BUDGET (IN \$1000) WESTERN'S SHARE	FY07		\$276	\$25	\$440	\$579		\$515	\$515			
BUDGET	FY06											
	FY05		\$3,209	\$3,750	\$1,000	\$972		\$210	\$210			
	FY04 \$100		\$1,548	\$50	\$1,954	80		0\$	0\$			
	\$570	\$83	\$392	\$813	\$200	\$150	\$870	0\$	0\$			
, 🖺		\$707										
	\$3,418	\$790	\$6,155	\$4,738	\$3,594	\$1,891	\$3,230	\$6,200	\$6,200	\$1,980	\$3,700	\$1,019
TOTAL EST.	TOOS											
Z. T	TYPE 3 FED PD	3 FED PO	PD PD TED IN 2002	S FED PD	FED PD TED IN 2002	FED PD	3 FED PD	s FED PD	3 FED PO	PD	7 FED PD	7 FED PD
175	DATE TYPE 5/1/2003 FED PD	2/28/2003 FED PO	5/1/2004 FED PD PD N COMPLETED IN	9/30/200	5/25/2005 FED PD PD N COMPLETED IN	5/25/200	5/1/2003	9/1/2008 FED PD	9/1/2008 FED PD	9/30/2009 FED PD	9/15/2007 FED PD	11/15/2007 FED PD
ĒΠ	DATE 0	10/15/1998	10/1/2003	10/1/2004 9/30/2005 FED PD	10/20/2004 10/20/2004 0% OF DESIG	10/20/2004 5/25/2005 FED PD PD 90% OF DESIGN COMPLETED IN	9/4/2002 5/1/2003 FED PD	10/1/2005	10/1/2005	CONST 7/30/2007	CONST 9/15/2006	10/15/2005
	DESCRIPTION/COMMENTS So. of Phoenix 230-kV Upgrade Replace gassing XFMR(KX1A) to Upgrade 115-kV to 230-kV	el existing warehouse buildin into code compliance COSTING)	So of Phoenix 230-kV Upgrade Replace XFMR to Upgrade 115-kV to 230-kV system & building Upgrades	_	-	So. of Phoenix 230-kV Upgrade Add a new 230-kV transformer bay and instal! KW1A XMFR	V Upgrade -kV line &		Parker Strip Reroute	115-kV Bay Rehabilitation 162, 262, 462 and 662 & station Service	New lines and bays at WM1 and WM3 Aid irrigation project	Replace obsolete equipment 69-kV Bay Rehabilitation AC Service Building, Monitor
	ITEM PROJECT	2 Phoenix O&M Ctr Stage 03 (P PHS 0050C	3 Maricopa Substation MAR 0004C	4 Parker-Gila 161-kV Line PADGLA 0022C	5 Phoenix Substation	6 Casa Grande Substation		llythe No. 1 161-kV	9 Parker-Gila 161-kV Line	Tucson Substation TUC 0009C	11 Wellion - Mohawk 34.5-kV T-lines WM1 to WM3	12 Davis 69-kV Switchyard DAD 0028C
	ITEM 1	2	e e	4	ഗ	9	7	8	6	01	=	12

_			\$1,668								
	FY12	<u> </u>	\$185								
	FY11		Ś								
	FY10		S102		8370						
					\$1,005					-	·
	FY09	\$100		5642	\$201		<u> </u> -				
	FY08	15			\$						
) (S)	FY07	\$600		\$3,012							\$2,392
BUDGET (IN \$1000) WESTERN'S SHARE	<u>ф</u>			\$102					\$5,158	\$2,294	\$1,000
BUDGE	FY06										
	FY05					\$250		\$220	\$1,000	\$1,000	
	\$257							\$515			
	\$343						\$225				
	FY03						63				
TOTAL TO DATE	COST						<u>.</u>				
•	\$600	002\$	\$2,576	\$3,756	\$1,576	\$250	\$515	\$735	\$6,158	\$3,294	\$3,392
TOTAL EST.	COST										
E N	TYPE FED PD	FED PD	PD	FEO PO	0 0	ED O	FED PD	FED PD			
\neg	(C)	9/15/2005 FED PD	12/15/2007 FED PD	10/15/2007 FED	1/15/2010 FED PD	5/1/2005 FED PD	9/15/2003 FED PD	<u>π.α.</u>	5/15/06	5/15/06	5/15/07
INSERVICE		<u> </u>			<u> </u>						
CONSTRUCTION AWARD INS	DATE 7/11/2003	11/2/2003	10/15/2004	10/15/2005	10/15/2007	4/1/2005	10/31/2002		10/17/05	10/17/05	10/17/06
이							S		щ	ñ	ñ
	OMMENT Potable W stem	t need to	76 miles of	69 KV	4.5kV	Ď,	Clearance distance upgrades	Reroute around Black Point Mesa	UPGRADE 17.2 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	UPGRADE 9.2 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	UPGRADE 9.2 MILES SOUTH OF CASA GRANDE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV
	DESCRIPTION/COMM Mead Susbtation Potat Fire Protection System (MULTI-COSTING)	Road and Culvert r be upgraded and reconstructed (MULTI-COSTING)	Reconductor 12.76 mil Conductor with ACSR	Upgrade lines to 69 kV with static	Eliminate failing 34.5kV equipment	Clark Tap Metering	ice distand	around B	UPGRADE 17.2 MILES SOUTH OF CASA GRANE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	UPGRADE 9.2 MILES SOUTH OF CASA GRANE TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV	UPGRADE 9.2 MILES SOUTH OF CASA GRANI TO EMPIRE TO COLIDGE FROM 115KV TO 230 KV
	DESCH Mead S Fire Pro (MULTI-	Foad and Culve be upgraded a reconstructed (MULTI-COST	Conduc	Upgrade li with static	Eliminate fa equipment	Clark T	Clearar	Reroute			
	M PROJECT DESCRIPTION/COMMENTS 13 Potable Water & Fire System Mead Susbtation Potable Water & Fire Protection System (MULTI-COSTING)	14 Buchanan Boulevard Project Road and Culvert need to be upgraded and reconstructed (MULTI-COSTING)	15 Mead-Basic Line Reconductor Reconductor 12.76 miles of Copper MEDBAS 0009C Conductor with ACSR	uoi >	5		rcock	Lines	CASA GRANDE- EMPIRE. TLINE UPGRADE TO 230KV	EMPIRE-EDS TLINE UPGRADE TO 230KV	ED5-ED4 TLINE UPGRADE TO 230KV
	Nater & F	in Bouleve	asic Line F 3 0009C	16 Gila Line Conversion 34.5kV to 69kV GLA-YMT GLA-GIV	17 Gila Sub Conversion 34.5 to 69kV	<u> </u>	19 Pinnicle Peak-Peacock 230kV tiine Upgrades	20 Parker-Gila 161kV Lines	21 CASA GRANDE. EMPIRE TLINE UPGRADE TO 230k	-ED5 PGRADE	4 PGRADE
	PROJEC Potable V	Buchana	Mead-Basic Line MEDBAS 0009C	Gila Line Conve 34.5kV to 69kV GLA-YMT GLA-(Gila Sub 34.5 to 6	18 Clark Tap	Pinnicle 1 230kV tlir	Parker-G	CASA GI	22 EMPIRE-EDS TLINE UPGRA	23 ED5-ED4 TLINE UP
	13	4	15	19	17	18	6	80	21	22	23

Prelim_FY05_Ten_Year_Plan_draft_final_postmtg_customers2 PAD - CONST PROJ (LINE 1 - 64)
Date Generated 3/28/2003

CONSTRUCTION TOTAL TOTAL BUDGET (IN \$1000)	SERVICE FIN. EST. TO DATE	DATE TYPE COST COST FY03 FY04 FY05	10/17/06 5/15/07 \$3,429				10/17/06 5/15/07 \$3,060 \$2,060			3.9 MILES ALREADY UPGRADED	10/1/07 5/1/08 \$5,253 \$5,253 \$7,000 \$3,688				10/17/06 5/15/07 \$2.986 5.1.000 \$1,996			3.4 MILES ALREADY UPGRADED	9/17/06 5/30/07 \$6,631				9/17/07 5/39/08 \$5,253 \$3,000 \$3,688			WESTERN PORTION/SEE TRUST FOR CONTRACTOR PORTION	10/1/09 5/6/10 \$6,469			10/1/10 5/7/11 \$8,784				10/1/11 5/9/12 \$3,4/9 \$3,000				10/1/05 5/1/07 \$2,250 \$1,350 \$3300		
CONSTRUCTION	AWARD INSERVICE	\neg				\downarrow				3.9 MILES ALREADY UPC			B1					3.4 MILES ALREADY UPC	9/17/06				9/17/07			WESTERN PORTION/SEL	10/1/09			10/1/10				10/1/11						-
		DESCRIPTION/COMMENTS	UPGRADE 9.3 MILES		TO EMPIRE TO COLIDGE	FROM 115KV TO 230 KV		SOUTH OF CASA GRANDE	TO EMPIRE TO COLIDGE	FROM 115KV TO 230 KV	UPGRADE 12.2 MILES	SOUTH OF CASA GRANDE	TO EMPIRE TO COLIDGE	FROM 115KV TO 230 KV	UPGRADE 8.1 MILES	SOUTH OF CASA GRANDE	TO EMPIRE TO COLIDGE	FROM 115KV TO 230 KV	UPGRADE OF DSW SYSTEM	SOUTH OF CASA GRANDE	TO EMPIRE TO COLIDGE	FROM 115KV TO 230 KV	UPGRADE OF DSW SYSTEM	SOUTH OF CASA GRANDE	TO EMPIRE TO COLIDGE	FROM 115KV TO 230 KV	UPGRADE OF DSW SYSTEM	SOUTH OF CASA GRANDE	EBOM 115KV TO 230 KV	UPGRADE OF DSW SYSTEM	SOUTH OF CASA GRANDE	TO EMPIRE TO COLIDGE	FROM 115KV TO 230 KV	UPGRADE OF DSW SYSTEM	SOUTH OF CASA GRANDE	TO EMPIRE TO COLIDGE	FROM 115KV TO 230 KV	UPGRADE 22.6 MILES	SOUTH OF PARKER	
		ITEM PROJECT	24 ED4-ED2	TLINE UPGRADE TO 230KV			25 COL#1-ED2	TLINE UPGRADE TO 230KV			26 EMPIRE TAP	SUB UPGRADE TO 230KV			27 COL#2-ED2	TLINE UPGRADE TO 230KV		,	28 CASA GRANDE	SUB UPGRADE TO 230KV	-		29 ED5	SUB UPGRADE TO 230KV			30 ED4	SUB UPGRADE TO 230KV		31 ED2	SUB UPGRADE TO 230KV			32 COOLIDGE	SUB UPGRADE TO 230KV			33 UPGRADE OF TRANS. LINE UPGRADE 22.6 MILES	SYSTEM SOLITH OF PARKER SOLITH OF PARKER	

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	EV19	3																																					
	EV11																					\$300			\$300														
	Γ										•			-				\$300				\$3,330			\$3,330												\$1,022		
	EV10					\$300				\$300))			\$300				\$3.060				\$600			\$ 009\$								\$300	_			\$1,560		
	OUY D	_																L				49			69				0					_			\$1.		
	FYOR	\$300				\$730				\$1.870	i			\$730				\$600											\$300				\$7,280						
(0)	Γ	3,800				2600				\$600				\$600															\$8,900				\$600						
BUDGET (IN \$1000)	WESTERN S SHARE	\$600									v 			-				-	-,						\dagger				\$600										
BUDGE	FYOR																								_														
	FY05																																						
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	FY04									-	-							-							+													-	
<u> </u>	FY03				_					-															_														
TOTAL	COST	_				_							-			·-·													_					_	_				
AL.	. 15	\$4,700				\$1,630				\$2,770				\$1,630				\$3,960				\$4,230			\$4,230				\$9,800				\$8,180				\$2,582		
TOTAL	COST							-		-	_							-																	_				
2	TYPE					•																		·					_										
ON	DATE	5/1/08				5/1/09				5/1/09	•			5/1/09				5/1/09				5/1/09			5/1/10				5/1/09				5/1/08				5/1/10		
CONSTRUCTION						10/1/08				10/1/08				10/1/08				10/1/08				10/1/08			10/1/09				10/1/08				10/1/01				10/1/09		·
	NTS				>				<u> </u>				^		ILA		>		-				MINE	30 KV				>		-		>				,		RKER	
	N/COMME	3.9 MILES	SOUSE		TO 230 K	3 MILES	OFA	۵.	TO 230 K	MILES	OME TAP	MOHAW	TO 230 K	6 MILES	TAP TO G		TO 230 K	MILES	O KNOB	TO 230 K		MILES	TO GOLD	31KV TO 2	MILES	MINE TAP	CCK	TO 230 K	9 MILES	E TO		TO 230 K	7 MILES	E 10	E ROCK	TO 230 K	TRANS.	тн оғ РА	λ
	DESCRIPTION/COMMENTS	34 UPGRADE OF TRANS, LINE UPGRADE 78.9 MILES	SYSTEM SOUTH OF PARKER SOUTH OF BOUSE	TO KOFA	FROM 161KV TO 230 KV	UPGRADE 7.3 MILES	SOUTH OF KOFA	TO DOME TAP	FROM 161KV TO 230 KV	UPGRADE 11 MILES	SOUTH OF DOME TAP	TO WELLTON MOHAWK	FROM 161KV TO 230 KV	UPGRADE 7.6 MILES	SYSTEM SOUTH OF PARKEIFFROM DOME TAP TO GILA		FROM 161KV TO 230 KV	UPGRADE 20 MILES	SYSTEM SOUTH OF PARKEF FROM GILA TO KNOB	FROM 161KV TO 230 KV		39 UPGRADE OF TRANS, LINE UPGRADE 22 MILES	SYSTEM SOUTH OF PARKERFROM KNOB TO GOLD MINE	TAP FROM 161KV TO 230 KV	40 UPGRADE OF THANS, LINE UPGRADE 42 MILES	SYSTEM SOUTH OF PARKEF FROM GOLD MINE TAP	TO BLYTHE/BUCK	FROM 161KV TO 230 KV	41 UPGRADE OF TRANS. LINE UPGRADE 63.9 MILES	SYSTEM SOUTH OF PARKEI FROM BLYTHE TO	PARKER	FROM 161KV TO 230 KV	42 UPGRADE OF TRANS, LINE UPGRADE 51.7 MILES	SYSTEM SOUTH OF PARKE! FROM BLYTHE TO	TO HEADGATE ROCK	FROM 161KV TO 230 KV	UPGRADE OF TRANS.	SYSTEM SOUTH OF PARKER	161KV TO 230KV
	Ö	LINE	ARKER SC	<u>P</u>	Ē	LINE UP	ARKEF SC	<u>p</u>	Æ	LINE UP		P	FB	LINE UP	4RKER FR	•	FR	LINE UP	ARKEFFR	Ĕ	-	LINE UP	ARKER FR	TA	LINE UP	ARKEFFR	ρ	Ē	LINE UP	ARKEFFR	PA	FR	LINE UP	ARKEFFR	<u>ρ</u>	FR	J. N.		161
		F TRANS.	UTH OF P,	30KV		35 UPGRADE OF TRANS, LINE	SYSTEM SOUTH OF PARKER	30KV		36 UPGRADE OF TRANS, LINE	SYSTEM SOUTH OF PARKER	30KV		37 UPGRADE OF TRANS. LINE	UTH OF P.	30KV		38 UPGRADE OF TRANS, LINE	UTH OF P,	10KV		F TRANS	UTH OF P.	30KV	F TRANS.	UTH OF P,	OKV		F TRANS.	UTH OF P,	JOKV		F TRANS.	JTH OF P.	οKV		ROCK	SUB UPGRADE TO 230KV	
	PROJECT	GRADE C	STEM SO	161KV TO 230KV		GRADE (STEM SO	161KV TO 230KV		GRADE C	'STEM SO	161KV TO 230KV		PGRADE C	'STEM SO	161KV TO 230KV		'GRADE C	STEM SO.	161KV TO 230KV		GRADE C	STEM SO	161KV TO 230KV	GRADE	STEM SO	161KV TO 230KV		'GRADE C	STEM SO	161KV TO 230KV		GRADEC	STEM SO	161KV TO 230KV		43 HEADGATE ROCK	IB UPGRA	
	ITEM PR	34 UF	Ś	16	1	35 UF	ŝ	16		36 UF	Ś	16		37 UF	Ś	16		38 UF	λS	16	1	39 UF	Š	16	40 UF	Š	16	\dashv	41 UF	λS	16		42 UP	λS	16		43 HE	S	
	_					_	_												_						•	_			_										

DESERT SOUTHWEST REGION
PRELIMINARY FY2003 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
PARKER-DAVIS CONSTRUCTION PROJECTS

Γ		П								89:
		FY12		\$490 7777	\$700 777?					\$1,668
		FY11	\$3,892	\$490	\$700	\$980				\$18,847
		FY10	\$1,135			\$1,234	\$1,560	ċċċ		\$20,302
		FY09 F					\$950	idad		\$16,096
								\$620		\$27,656
	_ ш	7 FY08							\$1,000	\$41,029 \$
OCCUPATION STOCK	BUDGET (IN \$1000) WESTERN'S SHARE	FY07	٠						\$8,000	\$24,019 \$4
100	WESTE	FY06								Ц
		FY05							\$1,000	\$13,941
		FY04								\$4,424
		FY03								\$3,646
TOTAL	TO DATE								-	
TOTAL		Τ	\$5,027	\$490	\$700	\$2,214	\$2,510	\$620	\$10,000	\$179,274
ŀ	INSERVICE FIN		5/1/07	5/1/10	5/1/10	5/1/09	5/1/08	5/1/11		ROJECTS
MOITOLIGE	RD INSE			80	60	80		10		TOTAL FOR ALL PROJECTS
Editor	AWARD	DATE	10/1/06	10/1/09	10/1/09	10/1/08	10/1/07	10/1/10		TOTAL
		DESCRIPTION/COMMENTS	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGRADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	UPGHADE OF TRANS. SYSTEM SOUTH OF PARKER 161KV TO 230KV	RECONDUCTORING OF T-LINE FOR INCREASED CAPACITY ISSUES FOR OPERATIONS	
		ITEM PROJECT	ADE TO 230KV	45 DOMETAP SUB UPGRADE TO 230KV	46 WELLTON MOHAWK SUB UPGRADE TO 230KV	47 KOFA SUB UPGRADE TO 230KV	48 BOUSE SUB UPGRADE TO 230KV	49 PARKER SUB UPGRADE TO 230KV	50 TOPOCK - MEAD T-LINE RECONDUCTOR	

Prelim_FY05_Ten_Year_Plan_draft_final_postmtg_customers2 PAD RRAD SUBS PROJ (LINES 1-14) Date Generated 3/28/2003 6 of 18

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FY12												\$0
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5 FY0											200	\$570
П	ER 2003	001								\$75		\$745 \$
	EPTEMBI	\$ 002		059	251	250		245	345			-
FY04	TED BY S	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	46							63		7 \$1,012
FY03	COMPLET		\$1.8	ક્ક !	32.5							\$437
COST	T TO BE											
COST	\$180	\$300	\$345	\$85	\$464	\$50	\$280	\$45	\$45	\$475	\$1,000	\$3,269
TYPE	PD PD	PD	3 FED PD	7	3 FED PD	3 FED PO	PD	PD PD	PD PD	SPLIT PD	P 6	
DATE	9/15/2003	9/30/200	9/15/200	9/15/200	9/15/200	9/15/2003		9/15/200	9/15/200		9/15/200	
DATE	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	
DESCRIPTION/COMMENTS	Senator Wash 69-kV Bay Rehabilitation (152)	Wellton - Mohawk Substation Replace Station Service transformer & Control Panel	Amargosa Substation 138-kV Bay Rehabilitation (1172)	Gila Substation 4.16kV breaker 106/Relay Replacement Failing need to be replaced	Instrument transformers Systemwide, for failures and internal metering	Coolidge Build Covered Parking	Battery Replacement for Parker- Davis Facilities at Knob: Maricopa; Oracle; Wetton-Mohawk; Gila Substation; ED2 and ED5	Relay Replacement @ ORA	Relay Replacement @ ORA	Security Needed to Better Protect DSW Transmission System	Oil Containment Environmental and Safety Issues	PARKER-DAVIS RRAD SUBSTATION PROJECTS
ITEM PROJECT	1 Substation Rehabilitation N/FGPD BRKSB	2 Substation Rehabilitation N/FGPD BRKSB	3 Substation Rehabilitation N/FGPD BRKSB	4 Substation Rehabilitation NFDPD BRKSB	5 Substation Rehabilitation N/FDPD BRKSB	6 Coolidge Facility N/FDPD BRKSB	7 Substation Rehabilitation NFGPD SUBSB	8 Meter and Relay Program N/FGPD SUBSB	9 Meter and Relay Program N/FGPD SUBSB	10 Security Enhancements Required	11 Oil Retention Mitigation	TOTAL EXPENSES FOR
	DESCRIPTION/COMMENTS DATE DATE TYPE COST COST FY03 FY04 FY05 FY05 FY07 FY08 FY09 FY10 FY11	Description/COMMENTS Date Date Type COST FY03 FY04 FY05 FY06 FY07 FY08 FY10 FY10	DESCRIPTION/COMMENTS DATE DATE TYPE COST FY03 FY04 FY05 FY05 FY07 FY09 FY17 FY18 FY18 FY18 FY19 FY19	Percentage Per	Percentage Per	DESCRIPTION/COMMENTS DATE TYPE COST FY03 FY04 FY05 FY06 FY07 FY08 FY01 FY01	Description Description Date Date	Proceedings Process Process	Proceedings Procedure Pr	Property Property	Proceedings Proceeding Proceeding Process Proc	Proceedings Proceeding Process Process

DESERT SOUTHWEST REGION PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM PARKER-DAVIS TRANSMISSION LINE RRAD PROJECTS

Figure 1 Figure 2 Figure 2 Figure 2 Figure 3				ōГ	WICE	E.	TOTAL EST.	TOTAL TO DATE				BUDGET (IN \$1000) WESTERN'S SHARI	BUDGET (IN \$1000) WESTERN'S SHARE					
MAINT 91/5000 FED \$2/350 \$1/360 \$1/	PROJECT Line Rehal N/FGPD L	ect ehabilitation D LINSB	DESCRIPTION/COMMENTS Parker-Gila 161-kV Line Structure Replacement STR 74/6 (3T) to Gila Sub	,	DATE 12/15/2000	TYPE FED PO	\$2,951	COST	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12
MAINT 9115/2004 FED \$2,957 \$1,360 MAINT 9115/2006 FED \$2,957 \$500 MAINT 9115/2006 FED \$2,950 MAINT 9115/2009 FED \$2,950 MAINT 9115/2006 FE	Line R N/FGF	ehabilitation PD LINSB	Parker-Gila 161-kV Line Structure Replacement BSE to Str. 74/6 (3T)	MAINT		FED	\$4,693											
MAINT 9/15/2005 FED	Line P N/FGF	iehabilitation PD LINSB	Parker-Blythe No 1161-kV T-line Structure Replacement Structure 38/3 to Blythe Sub	MAINT		FED	\$2,950		\$1,36									
MAINT 91152005 FED \$2,550 \$1,249 \$1,160	Line A N/FGF	ehabilitation 1D LINSB	Parker-Blythe No. 1 161-kV T-line Structure Replacement Parker Switchyard to structure 38/3 (3T)	MAINT	9/15/2004	FED .	\$2,951		\$80									
MAINT 9/15/2006 FED 54.00 S2.950 S1.360 S1.360 S1.360 MAINT 9/15/2008 FED 52.950 S2.250 S1.360 S1.36	Line R N/FGF	ehabilitation PD LINSB	Saguaro-Oracle 115kV Structure Replacement w/steel	MAINT	9/15/2005	FED PD	\$2,550			\$1,249								
MAINT 9/15/2006 FED 52,950 MAINT 9/15/2007 FED 52,950 MAINT 9/15/2009 FED 52,250 MA	Line F N/FGF	iehabilitation 2D LINSB	Coolidge-Oracle 115kV Structure Replacement w/wood	MAINT	9/15/2005	FED PD	\$400			\$200								
MAINT 9/15/2009 FED 52,950 MAINT 9/15/2009 FED 52,250 MAINT 9/15/2009 FED 52,250 MAINT 9/15/2009 FED 58,250 MA	Line R N/FGF	lehabilitation 3D LINSB	Parker-Blythe No. 2 161-kV Line Structure Replacement Replace Shell rot poles between Parker and Blythe.	MAINT	9/15/2006	PO PO	\$2,950				\$1,200		0					
MAINT 9/15/2009 FED \$2,850 MAINT 9/15/2009 FED \$2,250 MAINT 9/15/2009 FED \$800 MAINT 9/15/200	N/FGF	iehabilitation PD LINSB	Parker-Blythe No. 2 161-kV Line Structure Replacement Replace Shell rot poles between Parker and Blythe.	MAINT	9/15/2007	FED PD	\$2,950					\$1,59						
MAINT 9/15/2009 FED \$2,250	N/FGF	ehabilitation PD LINSB	Parker-Blythe No. 2 161-kV Line Structure Replacement Replace Shell rot poles between Parker and Blythe.	MAINT	9/15/2008	FED PD	\$2,850						\$1,49		09			
10 MAINT 9/15/2009 FED 8800, S400 S500 S400 S400 S400 S400 S400 S400	Line R N/FGF	ehabilitation PD LINSB	Parker-Blythe No. 2 161-kV Line Structure Replacement Replace Shell rot poles between Parker and Blythe.	MAINT	9/15/2009	FED	\$2,250					"		\$1,2		0		
PARKER-DAVIS RRAD \$2,160 \$2,810 \$2,560 \$2,950 \$2,950 \$1,360 \$0 TRANSMISSION LINE PROJECTS TRANSMISSION LINE PROJECTS \$2,950 \$2,950 \$2,950 \$1,360 \$0	Wellto	n - Mohawk 34.5-kV T-L	Rehabilitation of the WMS-WM1 and WMS-WM3 34 5-kV Lines Aid irrigation project	MAINT	9/15/2009	FED	008\$									Q		
	TOTAL	EXPENSES FOR					\$28,295		\$2,16								0\$	0\$

	FY12												
	FY11						,						
	FY10				INE ITEM	\$217				\$228			
	FY09 F				BY THIS L	\$217	\$27			\$114			
	FY08	·			UPLISHED	\$217	227						
SHARE					\$180 BE ACCOM		\$27			\$135			
WESTERN'S SHARE	06 FY07				\$180	2128	\$27			\$135			
W	Γ		878		\$300 \$450 \$180 \$180 \$180 \$180 \$26 \$26 \$26 \$26 \$26 \$26 \$26 \$26 \$26 \$26		\$27			\$135			\$182
	04 FY05	•	878		\$450 ETAILS ON		\$554			\$135			\$152
	33 FY04		\$74		\$300 \$26 \$26 \$7E FOR D		\$190	\$35	828		\$61		
TO DATE	ST FY03				E FOOTNC								
EST. TO		\$51	\$230	\$204	\$1.573 SE	\$975	\$465	\$185	\$28	\$1,110	\$1,692	\$272	\$334
N. N.	111		PO	PO PO .	PD	PD CP	PD AND AMP	PD	PO PO	P. C.	P.O.	O O	FED
VICE		5/2001	VARIOUS	9/15/2001	9/15/2001 FED	Various	MAINT Various FED PD PD STEED PD	9/15/2001 FED	9/15/2001 FED	Various E DONE: CAG	MAINT 9/15/2003		
AWARD INSERVICE	DATE	MAINT	MAINT	MAINT	MAINT	V TWAINT	MAINT V	MAINT	MAINT	MAINT V	MAINT	MAINT	MAINT
-	MMENTS	RTU Replacement Davis, PAD, Blythe COMP DAD PAD	RTU Replacement Program 0-FY02 2-FY05 2-FY03 2-FY04	Signal - ED2 Microwave Replaceme ED2 to COL - COMP SIG to COL	Microwave Replacement	Microwave System Replacements 11-FY06 1-FY07 BIA BLP 1-FY08 1-FY09 1-FY10	Power system replacement Sites based upon testing 3 - FY02, 5 - FY03, 2 - FY04, 1 - FY05, 1 - FY06, 1 - FY 07, 1 - FY08, 1 - FY09, 1 - FY10	Knob Microwave Tower	Mount Lemon Tower and building upgrade		Communication Power System Improvement Improvement VHF Radio Replacement (PD)	Replace remote DACS (3 sites) (Digital cross connects)	Replace TELCO CBA's (Channel bank ass'y) and WESCOM CBA
	ITEM PROJECT	Communications Division	Communications Division	Communications Division	4 Communications Division	Communications Division Microwa JOINT USEAGE WITH BOR 1-FY06 1-FY08	6 Communications Division	Communications Division Installation	8 Communications Division	9 Communications Division	Communications Division	Communications Division	12 Communications Division
	E	-	2	e.	14	ಬ		7	 *] "	0	=	2

PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM PARKER-DAVIS COMMUNICATION RRAD PROJECTS DESERT SOUTHWEST REGION

_							_	
		FY12					os	
		FY11					20	
		FY10					\$445	
		FY09				-	\$358	
		FY08	\$328				 \$572	
\$1000)	SHARE	FY07					 \$342	
BUDGET (IN \$1000)	WESTERN'S SHARE	FY06 F					 \$558	
60	\$	FY05 F					\$602	
		FY04 F			\$181		\$522	
		FY03 F					\$740	
TOTAL	FO DATE	COST F						
TOTAL	EST. T	cost c	\$328		\$181		 \$7,628	
7	FIN. ES	TYPE	Split PD		Split	<u>e</u>	_	-
NC	ERVICE				G)	<u> </u>		
CONSTRUCTION	AWARD INSERVICE	DATE DATE	MAINT		MAINT	•		
20	4	Σ	System			Alarm System (MULTI-COSTING)	PARKER-DAVIS RRAD	COMMUNICATIONS PROJECTS
		ITEM PROJECT	13 Communications Division Replace DSW Telephone (MULTI-COSTING)		14 Communications Division Upgrade the Communications		TOTAL EXPENSES FOR PARKER DAVIS RRAD	

* FOOTNOTE 1: SITES TO BE DONE IN FY03 - NPK MAR, COL NPK, KNB GLA, PHS JPK, NPK TPK, PPPK TPK

SITES TO BE DONE IN FY04 - NPK ORA, NPK TUC, WTK LIB, PRS MGS

SITES TO BE DONE IN FY05 - NPK ED5 SITES TO BE DONE IN FY06 - PPK TPK ** FOOTNOTE 2: TOWERS TO BE CONSIDERED IN THE TOWERS PROGRAM DURING FY04 - MTL, CAG

TOWERS TO BE CONSIDERED IN THE TOWERS PROGRAM DURING FY05 - MAR, ED5, ORA, NPK TOWERS TO BE CONSIDERED IN THE TOWERS PROGRAM DURING FY06 - COL, SIG, ED2

	1	- 112			80		80
					20		0\$
	EV10				\$75		\$75
	EVOS				\$75	·	
	FVOR				\$75		\$75
N \$1000) S SHARE			\$212	~~~~	\$75		\$287
BUDGET (IN \$1000) WESTERN'S SHARE	FY06		\$147	B, RGS, P	\$75		\$222
	FY05	\$21		LA, COL, L	\$75		968
	FY04	\$21		SITES TO BE DONE ARE PAD, GLA, COL, LIB, RGS, PCK	\$75		g.
	FY03			BE DONE		-	9
TOTAL TO DATE	COST			SITES TO			
TOTAL EST.	COST	\$42	\$359		\$525	6004	1000
Į. N	TYPE	95 0	FED		5 E		
ONSTRUCTION AWARD INSERVICE	DATE	9/15/2001 FED	9/15/2003 FED PD				
CONSTRUCTION AWARD INSER	DATE	MAINT	MAINT		MAINT		
	DESCRIPTION/COMMENTS	DAD TBUS Relay Replacement	DFR Replacement		neray neplacement	PARKER-DAVIS	PROTECTION PROJECTS
		Meter & Relay Program	2 Meter & Relay Program	3 Mater & Bolav Drogram		TOTAL EXPENSES FOR	
į	N N	-			,		

	FY12		0\$
	FY11		0\$
	FY10		l .
	FY09		0\$
	FY08		0\$
BUDGET (IN \$1000) WESTERN'S SHARE	FY07	\$270. \$150	\$270 \$150 \$0
BUDGET (WESTERN	FY06	\$270	
	FY05	\$725	\$725
	COST FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12	\$583 \$609 \$725	609\$
	FY03	\$583	\$583
TOTAL TO DATE	COST		
		\$2,637	\$2,637
N.	TYPE	FED PD	
AWARD INSERVICE FIN EST	DATE DATE TYPE COST	9/30/2007 FED PD	
CONSTRUCTION AWARD INSER	DATE	5/1/2003	
	DESCRIPTION/COMMENTS	Basic Substation Demoish the Basic Substation Contl 5/1/2003 BAS 0019K 0021C and Sub Yards 1, 2, &3	RETIREMENT PROJECTS
	ITEM PROJECT	1 Basic Substation Demolition BAS 0019K 0021C	TOTAL EXPENSES FOR
	ITEM		

	T.		<u> </u>	1		0\$				<u> </u>			T		0\$
	EV13	-			<u> </u>	0\$									0\$
	EV11				-								_		
	EV10		ŀ			0\$	ļ								0\$
	FYOO	3		1		0\$									0\$
	FYOR				\$100	0\$					8328				\$428
BUDGET (IN \$1000)	FY07	T			009\$	OS.								\$18	\$618
UDGET () /ESTERN	FY06	1				0\$	\$38							\$131	\$169
∞ ≶	FY05	ł	\$500	\$34		\$534	\$94		\$39				\$75		\$742
	FY04			\$215		\$215						\$39	\$200		\$454
	FY03	215		\$333		\$345				S,					\$348
TOTAL TO DATE	TSOC	\$107													
TOTAL EST.		\$119	\$3,500	8582	\$700	\$4,901	\$131	\$250	\$39	814	\$328	\$39	\$275	\$149	\$6,126
	TYPE	NT NT	FED	FED	FED		N FED	FED INT	FED	FED	Split	SPLIT	SPLIT	SPLIT	
RVICE	DATE	9/15/2002		2/15/2006 FED	3/15/2005 FED		9/15/2000 FED INT	9/15/2001 FED	9/15/2005	9/15/2003					
CONSTRUCTION AWARD INSE	DATE	10/15/1998					MAINT	10/15/1999	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	
-1		Phoenix O&M Cir Stage 03 (IVI Remodel existing warehouse buildin PHS 10001C (MULTI-COSTING)	Connection between LIB and EST Westerns' portion Estrellia Transmission Protect	Mead Substation Potable Water & Fire Protection System (MULTI-COSTING)	Road and Culvert need to be upgraded and reconstructed (MULTI-COSTING)	INTERTIE PROJECTS	Liberty DFR(INT)	Upgrade the Communications System for the Mead-Phoenix Project	FY05-1RTU	Communication Power System Impr VHF Radio Replacement (INT)	Replace DSW Telephone System	Upgrade the Communications Alarm System	Increased Security Issues	Upgrade PBX System	INTERTIE PROJECTS
-	TEM PROJECT	1 Phoenix O&M Cir Stage 03 (IN PHS 10001C	2 RUDD Substation	3 Potable Water & Fire System		SUB-TOTAL OF EXPENSES FOR CONSTRUCTION FOR	5 Meter & Relay Program	6 Mead - Phoenix Communicatio Upgrade the Communications System for the Mead-Phoenix Project	7 Communications Division	8 Communications Division	9 Communications Division	10 Communications Program	11 Security Enhancements	12 Mead Phone System	TOTAL EXPENSES FOR

		CONSTRUCTION	N N	2	TOTAL	TOTAL TO DATE				BUDGE (IN \$1000) WESTERN'S SHAP	BUDGE (IN \$1000) WESTERN'S SHARE					
EM PROJECT	DESCRIPTION/COMMENTS	_	DATE				FY03	FY04	FY05	FY06		FY08	FY09	FY10 F	FY11 F	FY12
1 Substation Rehabilitation	Harcuvar Substation 115-kV Bay Rehabilitation (1062) Breaker Replacement (1162)	MAINT	5/2002	TRUST	\$239											
2 Communications Program	FY-05, INSPECT/REPAIR 1 TWR	MAINT Various		TRUST	\$473				\$180				\$293			
3 Communications Program	Replace DSW Telephone System	MAINT		SPLIT CAP	826								\$29			
4 Communications Program	Upgrade the Communications Alarm System	MAINT		SPLIT CAP	\$16			\$16					·			
5 Communications Program	RTU Replacement 5 - FY02 RTU	MAINT	Various	TRUST	\$170	·					•					
	Breaker 382 - 230 kV Breaker Replacements - HCR Substation	MAINT		TRUST CAP	\$128		\$35									
7 Substation Rehabilitation	Relay Replacements	MAINT		TRUST	98\$											
8 Oil Breaker Replacements Program (Various Sites and Contracts)	Replace Oil Circuit Breakers	CONST	Various	TRUST CAP	\$1,600					\$320		\$320		\$320	\$320	
TOTAL EXPENSES FOR	CENTRAL ARIZONA WATER CONSERVATION DISRICT				\$2,741		\$35	\$16	\$180	\$320	\$320	\$320	\$642	\$320	\$320	80

DESERT SOUTHWEST REGION PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM BOULDER-CANYON CONSTRUCTION AND BRAD PROJECTS

	EV11 EV12	1							0\$ 0\$
	6710								os:
	EVOD								\$0
	EVOR						\$100		\$100
	E FV07					-	8600	50	2 \$600
BUDGET (IN \$1000)	WESTERN'S SHARE					22		875	\$75
BUDGE	WES E			858	. 23	5 \$34		\$200	5 \$234
	FY04	88	\$11	98	\$32	33 \$215			52 \$305
	E A	83	. 69			\$333			\$352
TOTAL	COST	\$7.1	\$54	828	\$32	25	00		2
TOTAL	COST	l .	8	8		\$582	\$700	\$275	\$1,772
- 1	T TY	74 10	3 FED BC	SPLIT	SPLIT BC .	6 FED BC	6 FED BC		
NOI	INSERVICE	9/15/2002	9/15/2003 FED BC			2/15/2006 FED 8C	3/15/2006 FED BC		
CONSTRUCTION	DATE	10/15/1998	MAINT	MAINT	MAINT				
	DESCRIPTION/COMMENTS	Phoenix O&M Ctr Stage 03 (Bf Remodel existing warehouse buildin PHS B0001C to bring into code compliance (MULTI-COSTING)	Communication Power System Impr VHF Radion Replacement (BC)	Replace DSW Telephone System	Upgrade the Communications Alarm System	Mead Sustration Potable Water & Fire Protection System (MULTI-COSTING)	Road and Culvert need to be upgraded and reconstructed (MULTI-COSTING)	Security Needed to Better Protect DSW Transmission System	BOULDER CANYON PROJECTS
	TEM PROJECT	1 Phoenix O&M Ctr Stage 03 (B PHS B0001C	2 Communications Division	3 Communications Program	4 Communications Program	5 Potable Water & Fire System	6 Buchanan Boulevard Project	7 Security Enhancements Required	TOTAL EXPENSES FOR

		T	<u> </u>	· · · · · · · · · · · · · · · · · · ·			16	1				· 1	
	FY12						\$120						\$120
	FY11						\$120						\$120
- 1	FY10												0\$
	FY09						\$120		\$228				\$348
			\$27	\$81			\$120	<u> </u>					\$456
	FY08		\$27			\$72 4Y			\$228				\$447
ய	FY07		ļ			FLG. KA	8						
WESTERN'S SHAR	FY06		\$59			\$134 9K, GCS, F	\$120		\$114				\$427
WESTERN'S SHARE	FY05		\$59			\$146 JECT: PI	\$120					\$75	\$400
Ī	FY04		\$25		\$45	THIS PRO			\$140			0000\$	\$510
	\$9 \$9	86\$	\$54			SHED BY			\$228	\$198			\$587
ш	S111					CCOMPL					į.		
	\$120	\$604	\$307	\$81	\$45	\$382 \$146 \$134 \$73 SITES TO BE ACCOMPLISHED BY THIS PROJECT: PPK, GCS, FLG, KAY	\$720	\$77	\$1,437	\$198	\$150 OF PROJE	\$375	\$4,466
	E COST	- 6	- do	<u></u>	<u></u>	<u> </u>		<u>a</u>			- Second		
	TYPE 002 FED CRSP	9/15/2003 FED CRSP	9/15/2009 FED CRSP	SPLIT	SPLIT	9/15/2009 FED CRSP	009 FED CRSP	FED CRSP	FED CRSP	000			
INSERVICE	DATE 9/15/2002	9/15/2	9/15/2			9/15/2	9/15/2009	Various	Various	9/15/2003	N	-	
	DATE 10/15/1998	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT	MAINT		
	PROJECT DESCRIPTION/COMMENTS Procents O&M CIF Stage 03 (C Remodel existing warehouse buildin 1 PHS C0001C to bring into code compilance (MULTI-COSTING)	Communication VHF Radio Replacement (CRSP)	Communication Power System Lassed upon resting FY01 TOW, PSM FY03 ELD, KAY 1 - FY04. 2 - FY06. 1 - FY07	Replace DSW Telephone System	Upgrade the Communications Alarm System	DFR Replacement	Relay Replacments For transformer reliability and reactive equipment protection	RTU Replacements FLG,GCP GCS,KAY,LHV,NVS FY02 - Labor	Inspect and repair COMM sites and towers 2 - FY04, 1 - FY06, 1 EA - FY07-09	Microwave ELD-FLG (Bacup path for Glen Canyon PP)	Shunt Cap Bank MOD Controllers	14 Security Enhancements Security Needed to Better Required Protect DSW Transmission System	COLORADO RIVER STORAGE PROJECTS
	ITEM PROJECT I Phoenix O&M Cir Stage 03 (C) PHS C0001C	2 Communications Division	3 Communications Division	4 Communications Program	5 Communications Program	6 Meter & Relay Program	7 Meter & Relay Program	8 Communication Division	9 Communication Division	10 Communication Division	13 PPK Replace Failing Equipment PROJECT ON HOLD: WATTH	14 Security Enhancements Required	TOTAL EXPENSES FOR
	쁘	1		1	1	1	l	1	ł		1	I	Ī

DESERT SOUTHWEST REGION PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM TRUST CONSTRUCTION RRAD PROJECTS (ALL SYSTEMS)

			NOI			TOTAL			BUDGET (IN \$1000)	\$1000)			_			
	OTIVE TO CONTRACT OF THE CONTR	AWARD	INSERVICE		EST.	TO DATE		7073	WESTERN'S SHARE	SHARE	7,07	90,70	00,72	25742	1	2
1 Hoover Bypass	Department of Transporation building	\top	15/2000	TRUST	\$9,134	\$2,000	\$3,734	\$3,400				9	5	2		<u> </u>
	a new bridge read moover barn		100711	2												
CHANSMISSION LINE WO	IN IO BE DONE IN I WO PHASES	00000	4/45/0004	2	0001								-		-	+
HDR 0008C	HDR 0008C of 161/69-kV XPMR, replacement of 69-kV of including the second of 69-kV of including brakers.	0012/2000	4,13/200	TRUST	00,00											
PROJECT COMPLETE		IN CLOSEOL	IN CLOSEOUT PROCESS		,											
3 Empire Tap Rebuild	Rebuild tap	10/15/2001	9/1/2006 TRUST PD	TRUST	\$1,120		\$112	\$224	\$560	\$224						
4 Signal Substation Modificati	Signal Substation Modification Replace MODI with MOI, rework the bus and replace the control building	10/15/2001	9/15/2006	TRUST PD	\$1,425		860	\$273	\$887	\$205						
5 Blythe Project	Interconnect to WAPA	7/1/2001	2/14/2002	TRUST	\$12,000		\$100									
POJECT COMPLETE		IN CLOSEOL	IN CLOSEOUT PROCESS										_			
6 Wellton-Mohawk Generation Facility	n Interconnect to WAPA at WML	1/1/2004	5/1/2005	TRUST PD	\$12,400		\$1,400	\$10,000	\$1,000							
7 Sundance Project	Interconnect to WAPA	6/1/2001	2/14/2002 TRUST 6/1/2002 PD	TRUST PD	000'28											-
POJECT COMPLETE		IN CLOSEOL	IN CLOSEOUT PROCESS													
8 Big Sandy project In PROJECT IN "HOLD" STATUS	Interconnect to WAPA	7/1/2001	5/14/2002 TRUST 6/14/2002 PD	TRUST	\$24,947		\$905									
PROJECT IN HOLD STA	103												4		$\frac{1}{1}$	+
9 North Havasu Substation	Construction of a 230/69/20.8 KV Substation in Lake Havasu City		-	TRUST	\$5,800		\$2,600	\$3,100	\$100							
10 Mead Substation 230 KV Fault Duty Mitigation	This project is due to tvanpah and Centennial Projects			TRUST IN	\$16,900		\$5,000	\$3,600	\$5,900	\$5,800	\$300					
11 Valley Electric Authority 230 KV Bay Addition at Mead Substation	This project is a stage of the bigger Ivanpah Project			TRUST	\$3,900		\$400	\$1,800	\$1,700							
12 Nevada Power Company 230 KV Bay Addition at Mead Substation	Install of a new 230 KV bay at Mead Substation.			TRUST IN	\$4,900		\$1,200	\$3,700							:	
13 Nevad Power Company 500 KV Interconnection	This project is a stage of the bigger Centennial Project			TRUST	\$4,400		\$300	\$3,100	\$1,000							
14 EDS Sub Upgrade to 230KV	ше	10/1/08	2/2/09	5/5/09 TRUST	\$4,271						\$2,347	\$1,924	4			
	From 115KV to 230KV	TRUST POR	TRUST PORTION/SEE PD-CONSTRUCTION SHEET FOR WESTERN'S PORTION	CONSTR	UCTION SHE	ET FOR WES	TERN'S POR	NOL								-

DESERT SOUTHWEST REGION PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM TRUST CONSTRUCTION RRAD PROJECTS (ALL SYSTEMS)

г		Т	Г				Т		Т	-	Т	_	Ī	
		FY12					L		\downarrow		L		So	
		FY11	\$2,320					·					\$2 320	
		FY10	\$1,560										61 560	
		FY09							ļ				80	
		FY08					\$200						\$2.124	
		FY07											\$2,647	
\$1000)	SHARE	FY06									2222		\$6.229	
BUDGET (IN \$1000)	WESTERN'S SHARE	FY05							2222		6666		\$11.147	
		FY04							2222		idici		\$29.197 \$11.147 \$6.229 \$2.647 \$2.124	
		FY03			_				3333			-	\$15.811	
TOTAL	TO DATE	COST												
TOTAL		COST	\$3,880				\$200		22		66		\$118,158	
	Z.	TYPE					77 TRUST	CAP	?? TRUST	CAP	?? TRUST	CAP		
NO	JCE		5/1/12				66		ii		22			
CONSTRUCTION	AWARD 1	DATE DATE	10/1/11				2.5		22		2.2			•
		DESCRIPTION/COMMENTS	Upgrade of DSW System	South of Casa Grande	To Empire to Coolidge	From 115KV to 230KV	Replace Oil Circuit Breaker		APS Interconnection		APS Interconnection - Bay Additions		TRUST & REIMBURSABLE	PROJECTS
		PROJECT	15 Signal	Sub Upgrade to 230KV			16 Black Mesa Substation	Breaker 1682	17 Galivan Substation		18 Flagstaff Substation		TOTAL EXPENSES FOR	
		TEN T	5				16		17		18			

DESERT SOUTHWEST REGION
PRELIMINARY FY2005 MAINTENANCE CONSTRUCTION RELABILITATION PROGRAM
SUMMARY SHEET FOR ALL MULTI-COSTED PROJECTS - ALL SYSTEMS

		CONSTRUCT	ERVICE	Z.	TOTAL EST.	TO DATE				BUDGET (IN \$1000) WESTERN'S SHARE						
ECT X O&M Ctr Stage 03 (Pt	PROJECT DESCRIPTION/COMMENTS Phoenix O&M Cir Stace 03 (Pf Remodel existing warehouse buildin	10/15/1998	DATE 2/28/2003 F	TYPE	COST \$1,100		FY03	FY04	FY05 F	706		FY08	FY09 FY	FY10 F	FY11	FY12
)50C	to bring into code compliance (MULTI-COSTING)			0 z 0	\$790		\$83									
				ည	69											
2 Communications Division	Replace DSW Telephone System (MULTI-COSTING)	MAIN⊤		E 6	88	28						8063				
		-		z		188		•				\$328				
				E G	- F	16						\$81			•	
				y e		\$58 \$29						858	628			
hancements	Security Needed to Better	MAINT		9	\$1,400	0			•							
Reduired	Protect DSW Transmission			e :	\$47	io i		\$400				\$75			-	
	System (Adlii Ti OOSTINO)			z (22	90 9		\$200				\$75				
	(MOLIFCOSTING)	-		5 6	5/25	o yr		2003				\$75		-		
				}	Š	· · · · · · · · · · · · · · · · · · ·						n N		•		
Communications Division	Upgrade the Communications	MAINT		FED	ES	\$313										İ
	Alarm System			0		181		\$181			-					
	(MULTI-COSTING)		-	z		39	\$39									
				E .		45		\$45								
				ည္က				232								
			· · · ·	ξ,		2		9				-				
Water & Fire System	5 Potable Water & Fire System Mead Susbtation Potable Water & Eire Brotoning Sustain	7/11/2003	11/30/2003 FED	<u> </u>	\$1,755	50 00	620	650	Ş							
	(MULTI-COSTING)				\$1,293		\$737	905\$	\$50							
	•			ည္က	\$32	8	\$184	\$126	\$13							
6 Buchanan Boulevard Project	Road and Culvert need to	11/2/2003	9/15/2005	FED	\$2,10	0							+	+	1	
	be upgraded and		-	5	\$166	99					\$142	\$24				
	reconstructed			2	\$1,54	8					\$1,327	\$221				
	(MULTI-COSTING)			ပ္က	\$38	9					\$331	\$55				
7 Mead Phone System	Upgrade PBX System	MAINT		FED	18	49										
	(MULTI-COSTING)			PO	Б	\$12				\$10	\$2					
			-	z	\$1	10				26\$						
			<u> </u>	ပ္ထ		27				\$24						
TOTAL EXPENSES FOR	PARKER-DAVIS				\$2,090	0	\$162	\$640	0\$	\$10	\$144	\$427				
	INTERTIE				\$3,712	-	\$788	\$706	\$20	285	\$1,340	\$624				
	BOULDER CANYON				\$1,17	011	\$192	\$358	\$13	\$24	\$334	\$188				
	CAWCD				\$45	- 20		\$16				9130	\$29			
									- ;				ļ			;
		TOTAL COD	TOTAL SOB ALL DECISETS		67.670		•	-								

MINUTES FROM CUSTOMER MEETING – PRESENTATION OF DRAFT PRELIMINARY TEN-YEAR PLAN DOCUMENT

MEETING HELD ON: JANUARY 30, 2003 SITE VISIT TO SOUTH, SOUTH OF PHOENIX HELD ON: FEBRUARY 27, 2003 SITE VISIT TO SOUTH OF PARKER HELD ON: MARCH 5, 2003

PURPOSE:

The preliminary Fiscal Year (FY) 2005 Ten-Year Plan was sent out to customers in December, 2002. This meeting was to review the plan, discuss the potential rate impacts, and compare the FY 2005 proposed plan to last year's plan.

DISCUSSION TOPICS AND ACTION ITEMS:

1. TEN YEAR PLAN RATES IMPACT:

The plan as proposed was input into each project's "investment database" that's tied to the Power Repayment Study. Based on **very preliminary** estimates, and using existing rate design methodologies and practices the anticipated rate impact for each project:

- Parker Davis: For FY05, estimated rate impact \$.07 per kW/month, or less than \$1.00 per kW/yr.
- Intertie: Estimated increase of approx. \$.15 per kW/yr for FY05.
- Boulder Canyon: different because BCP is a "pay as you go" plan. The
 construction/replacement costs are not capitalized as in other projects, but go directly into
 revenue requirement in the year costs are incurred. Any increase in the revenue requirement
 directly impacts the amount the customer pays in a given year.

Notes: For PDP and Intertie: Rate impact not felt until asset placed in service.

2. MEAD SHARED ALLOCATION FOR CONSTRUCTION PROJECTS:

The allocation of construction costs for Common Facilities (i.e., Potable Water & Fire System and Buchanan Boulevard) at Mead Substation to the Intertie, Boulder Canyon and Parker-Davis Projects are 73.7%, 18.4%, and 7.9%, respectively. This cost allocation was determined by the development and application of a "line termination-based" methodology. The designated line terminations associated with non-Western entities were assigned to the Intertie Project for cost allocation purposes. The costs associated with this assignment will be offset by revenues derived from Facilities Use Charge assessments. Currently, Western collects Facilities Use Charges for the Interconnection of Common Facilities at Mead Substation from most non-Western entities.

- Investigate the feasibility for obtaining funding through the new Homeland Security Office to off-set budgetary requirements for DSW.
- Attach initial handout given to customers at meeting explaining the breakout of costs at Mead facility.

A new chart was added to illustrate the difference between the Ten-Year Plan estimates and the allotted budget dollars in the last, few Fiscal Years.

NOTE: This answers an outstanding action item from the FY2003 Ten-Year Planning Process.

3. BREAKOUT OF MULTI-COSTED PROJECTS THROUGHOUT TEN-YEAR PLAN:

DSW has added a section in the both the Ten-Year Plan and PowerPoint Presentation, grouping those projects that cross multiple power systems. These groupings are for informational purposes. The estimated costs will still be included under the appropriate power system spreadsheet.

NOTE: This answers an outstanding action item from the FY2003 Ten-Year Planning Process.

REVIEW OF PROJECTS:

The projects were reviewed project by project in a Power Point presentation. The presentation is available upon request. Comments that were discussed were as follows:

PROJECT	COMMENTS
POTABLE WATER & FIRE SYSTEM: • Question was raised on the justification for the Mead Facility Multi-Costed Project Methodology.	✓ DSW gave each customer a handout outlining the philosophy and methodology for future projects at Mead Facility. Ann Finley answered questions raised by Bob Lynch.
Issue was raised as to when the Intertie and Parker-Davis customers were presented plan.	✓ DSW is coordinated with all customers on the above- mentioned issue and taking advantage of existing customer meetings, i.e., JPA Meetings, ENOC Meetings, etc., to make sure customers are informed of all changes to existing processes.
PARKER-GILA 161 KV LINE:	
 Can DSW provide customers with a list of Right-of-Way (ROW) issues by line and/or facility? 	✓ DSW will need time to develop list, including priorities, and will provide to customers as soon as completed.
Has DSW investigated receiving funding from the city government?	✓ DSW met with Quartzsite government officials on February 6, 2003. Discussed options for the re-route project and project finances. Even though the city government does not have funds allocated for this project, they discussed partnering with our customers to try and obtain non-reimbursable funding.
 Customers requested a copy of the easement documentation and wording. 	✓ Attached is the requested documentation.

What steps are being taken to ensure this ROW issue does not occur in the future?	✓ The ROW process is in the process of being documented and a database is being implemented to maintain better documentation. Investigating the use of the MAXIMO system in the future, coordinating with Maintenance on ROW issues.
CASA GRANDE-EMPIRE T-LINE UPGRADE TO 230-kV: ■ Request was made to have separate meetings for both the South of Casa Grande, South of Phoenix and South of Parker Projects, to have the time needed to discuss issues at length. ■ Could DSW send out maps of	 ✓ Site visits were set-up for last week of February and first week of March with the Project Managers. Attached are the questions from the customers concerning the South of Casa Grande, South of Phoenix Project. There were no questions from the South of Parker Project. ✓ The attached CD contains both the Transmission Line Map and Operating Diagrams. They are in
the transmission lines within the region?	PDF format and can be downloaded from the data CD.
ED5 SUBSTATION UPGRADE TO 230-kV: • How is DSW handling the customer portion - is the customer aware of the issue?	✓ The customer portion of the upgrade will be discussed, while in contract review with Power Marketing, to determine financial responsibility. Issue is on-going for both DSW and customer.
UPGRADE OF TRANSMISSION LINE SYSTEM SYSTEM SOUTH OF PARKER FROM 161 KV TO 230-kV: • What kind of generator or interconnection does the customer have in mind?	✓ Question was answered by the Wellton-Mohawk customers.
CAWCD would like to know if this would elevate the static var issues at Parker Substation?	✓ Jim Charters to take that on as an action item for later discussion at a JPA Meeting.
PARKER SUBSTATION UPGRADE TO 230-kV: • Questions were raised on the metering issues, in conjunction with Power Marketing Contract requirements.	✓ Andrew McBride will review contracts for Signal to determine the outcome of the metering questions.
OIL RETENTION MITIGATION: • Which facilities and exact costs will DSW be doing in those Fiscal Years? Is there an FDS sheet for this project?	✓ Project in a "hold" status while a determination being made by DSW as to the true scope and necessity of project.
 ■ FDS sheet very preliminary not very beneficial. Could DSW provide better FDS sheet? 	✓ This project is still being defined for better scope. Transmission Planning and Construction Engineering to make determination on scope of project.

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- What are the impacts for SRP ... what are the gains and losses?
- May cause breaker issues at Liberty Substation... who has the financial responsibility?

4. CUSTOMER QUESTIONS FROM SOUTH OF CASA GRANDE, SOUTH OF PHOENIX SITE VISIT:

The following questions were raised by LeeAnn Torkelson, from K.R. Saline & Associates, PLC. The answers are provided by the South of Casa Grande, South of Phoenix Project Manager – Chuck McEndree.

Questions asked during the Casa Grande Tour:

Will Western remove the existing 115-kV system and replace with 230-kV, or build 230-kV adjacent to, or on top of the 115-kV system?

The existing 115-kV transmission lines will be removed and 230-kV lines will be constructed on the same ROW. Some existing 115-kV substations and switchyards will be replaced with 230-kV facilities and at other locations the 230-kV facilities will be built next to the existing 115-kV facilities. The 230-kV construction depends on the existing facilities at the location.

What will happen to existing 115/12-kV transformers? Scrap/resell/move elsewhere in Western's system/other option?

The need for the 115/12-kV transformers is reduced with the conversion of part of the system to 230-kV. The newest/best 115/12-kV transformers would be would be evaluated for replacements and the rest would be sold/scrapped.

Is Western proposing to upgrade both Coolidge-ED2 115-kV lines? Is there an opportunity to negotiate upgrading only one of the 115-kV lines?

Both lines were proposed to be up-rated to 230-kV in the preliminary estimates. Consideration will be given to only up-rating one.

The Preliminary Ten-Year Plan funds the upgrades starting at Casa Grande and ending at Coolidge. What is the reasoning for starting at Casa Grande?

Could the project be started at Coolidge?

The conversion to 230-kV has started on the Casa Grande side since the Phoenix Substation could be converted to 230-kV and the 230/115-kV transformer replaced with a 230/12-kV transformer.

The Maricopa Substation would be rebuilt to 230-kV and the line from Maricopa to Casa Grande that has just been rebuilt to 230-kV but energized at 115-kV would be energized at 230-kV. The 230/115-kV transformer removed from Phoenix would be installed at Casa Grande.

Post-Tour questions:

The facility data sheet for Casa Grande shows a total cost of \$1.891million, while the spreadsheet of all projects shows the Casa Grande Sub upgrade (item #39) to be \$6.631 million. Which value is more accurate?

The \$1.891m is for installation of the Phoenix 230/115-kV transformer at Casa Grande in 2005. The \$6.631m would remove the 230/115-kV transformer and construct a three element 230-kV ring bus with two 230/12-kV transformers in 2007.

The dollar amounts indicated on the spreadsheet are in present day dollars?

No, the funding has been escalated to the expenditure year.

The ED2 substation upgrade is estimated to be \$8.784 million, which seems high compared to the other substation upgrades. Could you clarify the upgrades proposed for this substation?

This funding was escalated to 2011 and is for a six element ring bus. A three breaker ring bus and the installation of the 230/115-kV transformer from Phoenix Substation would be approximately \$5.145m in 2011. All estimates are budget grade for out years and will be refined to construction grade three years prior to in service.

Could we get FDS (Facility Data Sheets) reports on all of the project elements? (See items #32 through #43 from the Prelim FY03 Maintenance Construction Rehab Program spreadhsheet).

Yes.